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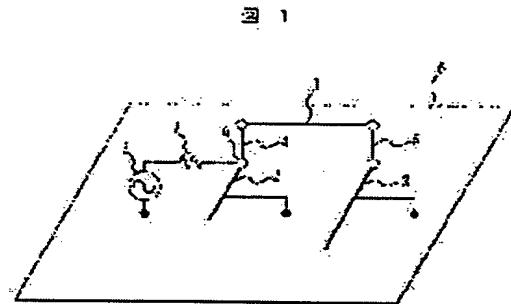
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(54) ANTENNA, ITS MANUFACTURING PROCESS, AND COMMUNICATION APPARATUS EMPLOYING THE ANTENNA

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a small multimode antenna capable of sharing one feeding point by a plurality of frequencies in order to embodying a small and inexpensive multimedia radio terminal, and to provide its manufacturing process and a communication apparatus employing the antenna.

SOLUTION: The antenna comprises a radiation conductor 1 arranged above a ground conductor 6, and first and second distributed constant circuits 2 and 3 being coupled with the radiation conductor 1. Each distributed constant circuit 2, 3 comprises a transmission line and has a branch wherein one end of the radiation conductor 1 is connected with one end of the distributed constant circuit 2 and the other end of the radiation conductor 1 is connected with one end of the distributed constant circuit 3. Joint of one end of the radiation conductor 1 and one end of the distributed constant circuit 2 becomes a single feeding point 9 where the radiation conductor 1 serves as the ground potential. The distributed constant circuit 2, 3 is designed as an equivalent circuit where different stubs are connected in parallel with the transmission line thus realizing impedance matching for a plurality of frequencies at the feeding point 9.



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